

Plugfest@Prague

Some Goals and Objectives

Goals

- Semantic Interoperability using external vocabularies
- Protocol Binding integration
- WoT Proxies
- Thing Directories

Semantic Integration

- iotschema Capability model
 - Capability (switch, speed, brightness)
 - Interaction (event, action, property)
 - Data Item (brightness value, transition time, speed value)
- Granular Capabilities
 - Light => switch, brightness, colorcontrol
 - Air Conditioner => switch, fan speed, operational mode

TD Annotation: Capability, Interaction, and Data Item

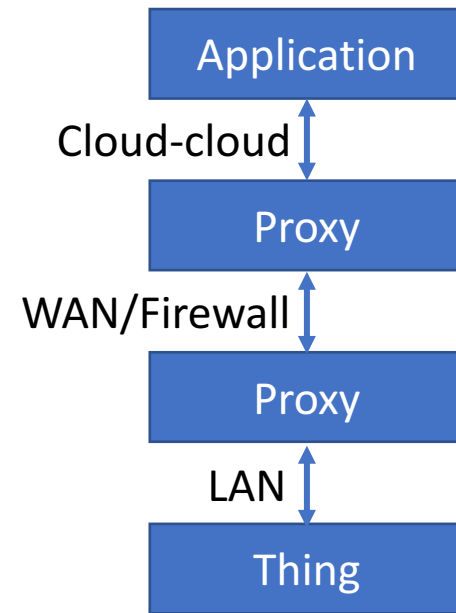
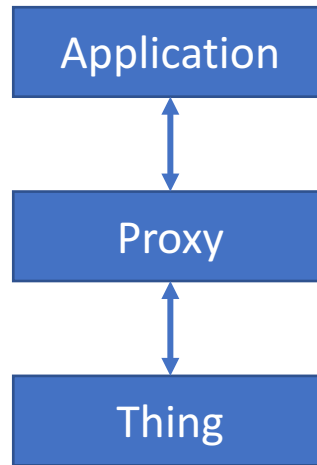
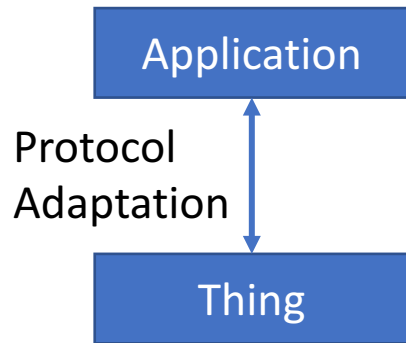
```
"base": "coap://example.net:5683/",
"@type": [ "Thing", "iot:TemperatureCapability" ],
"name": "Temperature Sensor",
"interaction": [
  {
    "name": "Temperature",
    "@type": [ "Property", "iot:TemperatureProperty" ],
    "outputData": {
      "type": "object",
      "field": [
        {
          "name": "temperature",
          "@type": [ "iot:TemperatureData" ],
          "type": "number",
          "minimum": -50,
          "maximum": 100,
          "unit": "Celsius"
        }
      ]
    }
  }
]
```

Protocol Bindings

- For device specific protocol adaptations
 - OCF, LWM2M
- For exposing proxy devices
 - HTTP, websockets, MQTT
- Priorities
 - TD vocabulary changes and adds
 - Aligned Examples
 - Diverse Examples
 - Observe Property using CoAP, MQTT, and websockets

WoT Proxies

- Firewall Traversal, Reachability
- Protocol Adaptation



Thing Directories

